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10ME769

Seventh Semester B.E. Degree Examination, July/August 2022
Product Life Cycle Management

Time: 3 hrs.

Max. Marks: 100

Note: Answer any *FIVE* full questions, selecting at least *TWO* questions from each part.

PART - A

- 1 a. Define PLM. Explain the PLM model with a neat sketch. (10 Marks)
b. Briefly explain the threads of PLM. (10 Marks)
- 2 a. Explain the characteristics of PLM. (10 Marks)
b. Explain the external factors driving PLM. (05 Marks)
c. Explain in detail the element of PLM. (05 Marks)
- 3 a. Define PDM systems. Explain the importance and benefits for implementing them in the organization. (10 Marks)
b. Explain the following:
(i) Check in (ii) Check out.
(iii) Meta data (iv) Versioning (10 Marks)
- 4 a. What do you mean by collaborative product development? Explain. (04 Marks)
b. Write a short note on the following:
(i) Prototype development
(ii) Virtual testing.
(iii) Digital Mockup and Prototype development
(iv) Design for the Environment. (16 Marks)

PART - B

- 5 a. How to create an animation for assembly instruction using a composer? (10 Marks)
b. Explain the process of creation of 3DXML and CAD drawing using CAD software. (10 Marks)
- 6 a. Discuss briefly about the best practices of knowledge and optimization of design products. (10 Marks)
b. Briefly explain the following:
(i) Publication. (ii) Parameter. (10 Marks)
(iii) Configuration. (iv) Reaction.
- 7 a. Define Digital Manufacturing and explain. (05 Marks)
b. What are the benefits of Digital Manufacturing? (05 Marks)
c. Write short note on the following:
(i) Manufacturing the rest (ii) Production planning. (10 Marks)
- 8 a. What is PLM strategy? What are the PLM implementation strategies? (10 Marks)
b. Explain :
(i) Impact of strategy. (ii) Elements of PLM strategy. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.